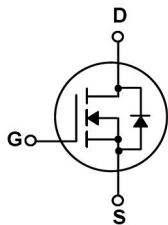


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TO-220 MOSFET N-CHANNEL MOSFET in a TO-220 Plastic Package.

Low gate charge, low crss, fast switching.

These devices are well suited for high efficiency switching DC/DC converters .



PIN 1 G

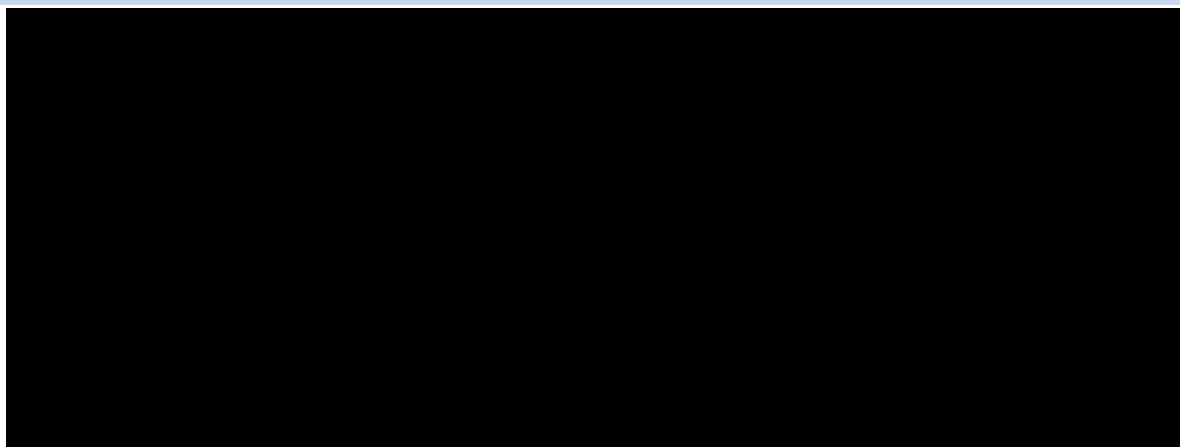
PIN 2 D

PIN 3 S

See Marking Instructions.

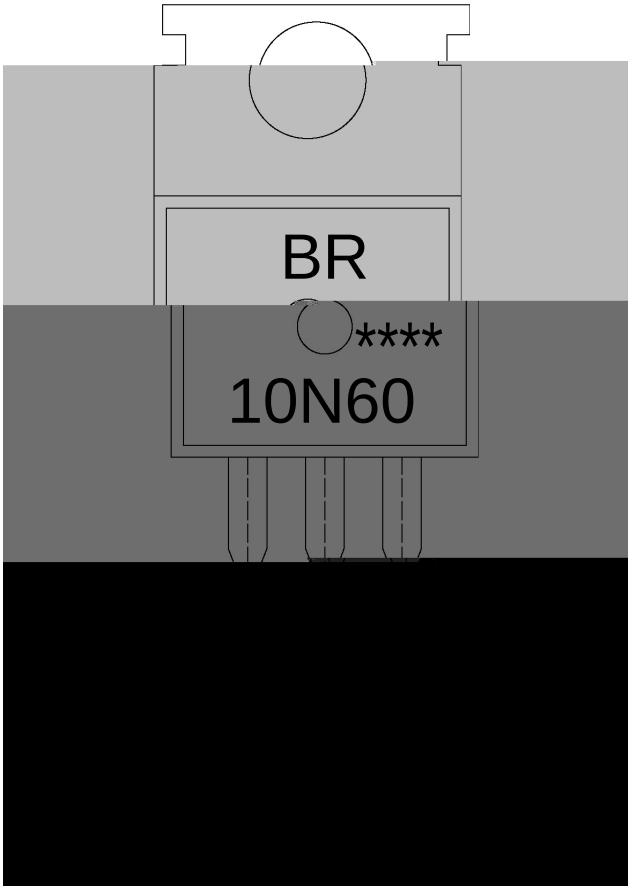
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	600	V
Drain Current	$I_D(T_C=25^\circ\text{C})$	9.5	A
Drain Current	$I_D(T_C=100^\circ\text{C})$	5.7	A
Drain Current - Pulsed	I_{DM}	38	A
Gate-Source Voltage	V_{GS}	± 20	V
Single Pulsed Avalanche Energy	E_{AS}	700	mJ
Repetitive Avalanche Energy	E_{AR}	15.6	mJ
Avalanche Current	I_{AR}	9.5	A
	R_{JC}	0.8	/W
	R_{JA}	62.5	/W
	$P_D(T_C=25^\circ\text{C})$	156	W
Storage Temperature	T_J, T_{STG}	-55 to 150	

Test Conditions	Min	Typ	Max	Unit
$V_{GS}=0V, I_D=250\text{ A}$	600			V
$V_{DS}=600V, V_{GS}=0V$			1	A
$V_{DS}=480V, T_C=125^\circ\text{C}$			100	A
$V_{GS}=\pm 20V, V_{DS}=0V$			± 100	nA
$V_{DS}=V_{GS}, I_D=250\text{ A}$	2.0		4.0	V
$V_{GS}=10V, I_D=4.75A$		0.6	0.73	
$V_{DS}=40V, I_D=4.75A$		8.0		S
$V_{GS}=0V, I_S=9.5A$			1.4	V
$I_D=10A, V_{DS}=480V, V_{GS}=10V$		45		nC

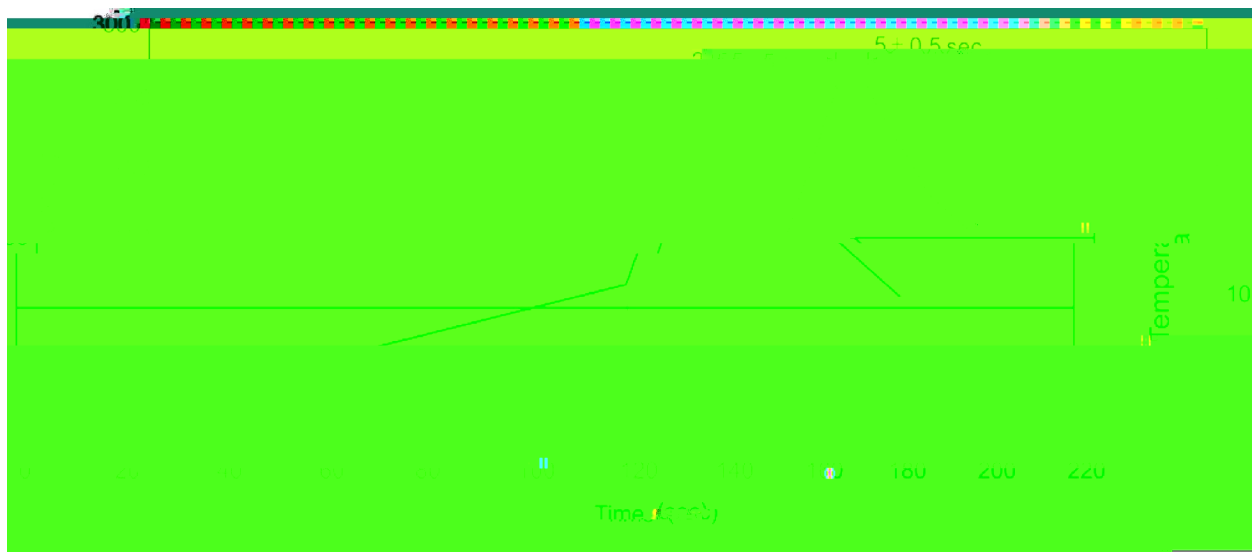


Dimensions in Millimeters		Dimensions in Millimeters	
Symbol	Max	Symbol	Max
A	9.8	C	1.4
B	2.56	D	6.3
E	15.7	F	9.4
G	2.6	H	2.6
I	8.6	J	1.9
K	1.25	L	0.2

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公司代码	公司代码
BR	公司代码
10N60	产品型号
----	公司代码 产品型号 批次号
Note:	
BR:	Company Code
10N60:	Product Type Code.
****:	Lot No. Code, code change with Lot No.



б " X

1. $25 \pm 150^\circ\text{C}$, Time: 60~90sec;
2. $255 \pm 5^\circ\text{C}$, Duration: $5 \pm 0.5\text{sec}$;
3. Cooling Speed: $2 \sim 10^\circ\text{C}/\text{sec}$.

Note:

1. Preheating: $25 \sim 150^\circ\text{C}$, Time: 60~90sec.
2. Peak Temp.: $255 \pm 5^\circ\text{C}$, Duration: $5 \pm 0.5\text{sec}$.
3. Cooling Speed: $2 \sim 10^\circ\text{C}/\text{sec}$.

$270 \pm 5^\circ\text{C}$ Time: $10 \pm 1\text{ sec}$ Temp.: 270 ± 5

“Q T Y E / BULK

Package Type	Units					Dimension (unit mm ³)		
	Units/Bag	Bags/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Bag	Inner Box	Outer Box
TO-220/F	200	10	2,000	5	10,000	135×190	237×172×102	560×245×195

„ 1 Y E / TUBE

Package Type	Units					Dimension (unit mm ³)		
	Units/Tube	Tubes/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Tube	Inner Box	Outer Box